



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 147035

TO: Nita M Minnifield  
Location: rem/3c01/3c18  
Art Unit: 1645  
Wednesday, March 09, 2005  
Case Serial Number: 10/774602

From: Barb O'Bryen  
Location: Biotech-Chem Library  
Remsen 1A69  
Phone: 571-272-2518  
*pyob*  
barbara.obryen@uspto.gov

### Search Notes

RUSH

*Reviewed  
3-15-05  
MM*

Result No.	Score	Query	Match	Length	DB ID	Description
1	116	93.5	64	3	US-08-416-711-1	Sequence 1, Appli
2	116	93.5	64	4	US-09-556-491-1	Sequence 1, Appli
3	96	77.4	23	3	US-08-416-711-2	Sequence 2, Appli
4	96	77.4	23	4	US-09-356-497-2	Sequence 2, Appli
5	52	41.9	117	4	US-09-902-540-16285	Sequence 16285, A
6	50	40.3	28	1	US-08-030-025-12	Sequence 12, Appli
7	50	40.3	28	2	US-08-413-2220	Sequence 1, Appli
8	50	40.3	29	1	US-08-677-304-11	Sequence 10, Appli
9	50	40.3	29	1	US-08-436-703B-2	Sequence 11, Appli
10	50	40.3	29	1	US-08-436-703B-3	Sequence 11, Appli
11	50	40.3	29	1	US-08-303-025-10	Sequence 10, Appli
12	50	40.3	29	1	US-08-030-025-11	Sequence 11, Appli
13	50	40.3	29	1	US-08-303-025-13	Sequence 13, Appli
14	50	40.3	29	1	US-08-677-304-11	Sequence 10, Appli
15	50	40.3	29	2	US-08-436-703B-1	Sequence 11, Appli
16	50	40.3	29	1	US-08-436-703B-15	Sequence 15, Appli
17	50	40.3	32	1	US-08-156-488-13	Sequence 13, Appli
18	50	40.3	32	1	US-08-303-025-15	Sequence 15, Appli
19	50	40.3	32	1	US-08-677-304-13	Sequence 13, Appli
20	50	40.3	32	1	US-08-436-703B-2	Sequence 2, Appli
21	50	40.3	33	1	US-08-303-025-16	Sequence 16, Appli
22	50	40.3	33	1	US-08-436-703B-4	Sequence 4, Appli
23	49	39.5	29	1	US-08-156-488-12	Sequence 12, Appli
24	49	39.5	29	1	US-08-303-025-14	Sequence 14, Appli
25	49	39.5	29	1	US-08-677-304-12	Sequence 12, Appli
26	49	39.5	29	2	US-08-436-703B-16	Sequence 16, Appli
27	49	39.5	928	4	US-09-134-000C-6590	Sequence 6590, Ap

Copyright GenCore version 5.1.6  
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OM protein - protein search, using bw model

Run on: March 8, 2005, 17:44:53 ; Search time 56.405 Seconds  
(without alignments)

145.840 Million cell updates/sec

Title: US-10-774-602-11  
Perfect score: 124  
Sequence: 1 YEKAKNAYQKANQAVLKAKEASSYD 25

Scoring table: BL05062 Gapop 10.0 , Gapext 0.5

Searched: 1391452 seqs, 329044822 residues

Total number of hits satisfying chosen parameters: 1391452

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA:  
1: /cgn2\_6/ptodata/2/pubpa/us07\_PUBCOMB.pep:  
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20: /cgn2\_6/ptodata/2/2/pubpa/us60\_PUBCOMB.pep:  
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query	Match	Length	DB ID	Description
1	124	100.0	25	14	US-10-294-770-11	Sequence 11, Appl
2	124	100.0	25	16	US-10-774-602-11	Sequence 11, Appl
3	116	93.5	64	14	US-10-294-770-1	Sequence 1, Appl
4	116	93.5	64	15	US-10-298-741-1	Sequence 1, Appl
5	116	93.5	64	16	US-10-774-602-1	Sequence 1, Appl
6	96	77.4	23	14	US-10-294-770-2	Sequence 2, Appl
7	96	77.4	23	15	US-10-298-741-2	Sequence 2, Appl
8	96	77.4	23	16	US-10-774-602-2	Sequence 2, Appl
9	51.5	41.5	866	16	US-10-437-963-203902	Sequence 20, Appl
10	51.5	41.5	1109	16	US-10-437-963-03905	Sequence 16, Appl
11	50	40.3	79	14	US-10-177-725-16	Sequence 20, Appl
12	50	40.3	79	14	US-10-177-725-20	Sequence 66, Appl
13	50	40.3	79	14	US-10-177-725-66	Sequence 66, Appl

**SEQUENCES**

Seq ID	SEQ ID NO	TYPE: PRT	ORGANISM: Artificial Sequence
US-10-294-770-11	1	SEQUENCE:	;
US-10-294-770-11	2	SEQUENCE:	;
US-10-294-770-11	3	SEQUENCE:	;
US-10-294-770-1	4	SEQUENCE:	;
US-10-294-770-1	5	SEQUENCE:	;
US-10-294-770-2	6	SEQUENCE:	;
US-10-298-741-2	7	SEQUENCE:	;
US-10-774-602-1	8	SEQUENCE:	;
US-10-774-602-1	9	SEQUENCE:	;
US-10-437-963-203902	10	SEQUENCE:	;
US-10-437-963-03905	11	SEQUENCE:	;
US-10-177-725-16	12	SEQUENCE:	;
US-10-177-725-20	13	SEQUENCE:	;

**ALIGNMENTS**

Result No.	Score	Query	Match	Length	DB ID	Description
1	124	100.0	25	14	US-10-294-770-11	Sequence 11, Application US/10294770 ; Publication No. US20030161840A1 ; GENERAL INFORMATION: ; APPLICANT: DRUILHE, PIERRE ; TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES ; FILE REFERENCE: 230759US03CIP ; CURRENT APPLICATION NUMBER: US/10/294,770 ; CURRENT FILING DATE: 2002-11-15 ; PRIOR APPLICATION NUMBER: US 09/356,947 ; PRIOR FILING DATE: 1999-07-19 ; PRIOR APPLICATION NUMBER: US 08/416,711 ; PRIOR FILING DATE: 1995-08-08 ; PRIOR APPLICATION NUMBER: PCT/FR93/01024 ; PRIOR FILING DATE: 1993-10-18 ; NUMBER OF SEQ ID NOs: 14 ; SOFTWARE: PatentIn version 3.1 ; SEQ ID NO 11 ; LENGTH: 25 ; TYPE: PRT ; ORGANISM: Artificial Sequence ; FEATURE: ; OTHER INFORMATION: Synthetic Peptide
2	124	100.0	25	16	US-10-774-602-11	Sequence 11, Appl
3	116	93.5	64	14	US-10-294-770-1	Sequence 1, Appl
4	116	93.5	64	15	US-10-298-741-1	Sequence 1, Appl
5	116	93.5	64	16	US-10-774-602-1	Sequence 1, Appl
6	96	77.4	23	14	US-10-294-770-2	Sequence 2, Appl
7	96	77.4	23	15	US-10-298-741-2	Sequence 2, Appl
8	96	77.4	23	16	US-10-774-602-2	Sequence 2, Appl
9	51.5	41.5	866	16	US-10-437-963-203902	Sequence 20, Appl
10	51.5	41.5	1109	16	US-10-437-963-03905	Sequence 16, Appl
11	50	40.3	79	14	US-10-177-725-16	Sequence 20, Appl
12	50	40.3	79	14	US-10-177-725-20	Sequence 66, Appl

**RESULT 1**

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 8, 2005, 17:36:47 ; Search time 21.6446 Seconds  
 (without alignments)  
 93.119 Million cell updates/sec

Title: US-10-774-602-12

Perfect score: 150  
 Sequence: 1 AKEASSYDYLGVFGGVPEHKKEEN 27

Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents\_AA:  
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 3: /cggn\_6/pbodata/1/iaaa/6A-COMB pep: \*  
 4: /cggn\_6/pbodata/1/iaaa/6B-COMB pep: \*  
 5: /cggn\_6/pbodata/1/iaaa/PCTUS-COMB pep: \*  
 6: /cggn\_6/pbodata/1/iaaa/backfiles1 pep: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	150	100.0	27	3	US-08-416-711-3	Sequence 3, Appli
2	150	100.0	27	4	US-09-356-497-3	Sequence 3, Appli
3	150	100.0	64	3	US-08-416-711-1	Sequence 1, Appli
4	150	100.0	64	4	US-09-356-497-1	Sequence 1, Appli
5	50.5	33.7	597	4	US-09-252-991A-32073	Sequence 32073, A
6	49	32.7	490	4	US-09-292-225-41	Sequence 41, Appli
7	49	32.7	509	4	US-09-292-225-35	Sequence 35, Appli
8	49	32.7	509	4	US-09-292-225-38	Sequence 38, Appli
9	48	32.0	306	4	US-09-386-642-53	Sequence 53, Appli
10	48	32.0	319	4	US-09-386-642-12	Sequence 12, Appli
11	48	32.0	560	4	US-09-352-991A-12343	Sequence 22343, A
12	48	32.0	671	4	US-09-252-991A-19016	Sequence 19016, A
13	47.5	31.7	588	4	US-09-279-3128	Sequence 3328, Ap
14	47.5	31.7	593	3	US-09-134-001C-1592	Sequence 3592, Ap
15	47	31.3	168	4	US-09-543-881A-6335	Sequence 6335, Ap
16	47	31.3	416	3	US-09-100-664A-9	Sequence 9, Appli
17	47	31.3	416	4	US-09-135-983-9	Sequence 9, Appli
18	47	31.3	416	4	US-09-553-867A-9	Sequence 9, Appli
19	47	31.3	416	4	US-09-553-867A-16	Sequence 16, Appli
20	47	31.3	416	4	US-09-553-867A-18	Sequence 18, Appli
21	47	31.3	416	4	US-09-472-112-1	Sequence 1, Appli
22	47	31.3	416	4	US-09-252-991A-18079	Sequence 18079, A
23	47	31.3	416	4	US-09-538-092-1157	Sequence 1157, Ap
24	47	31.3	417	4	US-09-949-016-10920	Sequence 10920, A
25	47	31.3	475	4	US-09-270-767-45524	Sequence 45524, Ap
26	47	31.3	947	4	US-09-252-991A-21398	Sequence 21398, A
27	47	31.3	1390	2	US-08-770-544-2	Sequence 2, Appli

#### ALIGNMENTS

RESULT 1  
 US-08-416-711-3  
 / Sequence 3, Application US/08416711

; Patent No. 6017538

; GENERAL INFORMATION:

; / DRUILHE, PIERRE  
 ; / APPLICANT: BOUHAROUN-TAYOUN, HASNAQ  
 ; / APPLICANT: OUVRAY, CLAUDE  
 ; / TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING  
 ; / PROTECTIVE ANTIBODIES  
 ; / NUMBER OF SEQUENCES: 10  
 ; / CORRESPONDENCE ADDRESS:

; / ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
 ; / ADDRESSEE: P.C.  
 ; / CITY: ARLINGTON  
 ; / STATE: VA  
 ; / COUNTRY: USA  
 ; / ZIP: 22202

; / COMPUTER READABLE FORM:

; / MEDIUM TYPE: Floppy disk  
 ; / COMPUTER: IBM PC compatible  
 ; / OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; / CURRENT APPLICATION DATA:  
 ; / APPLICATION NUMBER: US/08/415,711  
 ; / FILING DATE: 08-AUG-1995  
 ; / CLASSIFICATION: 424  
 ; / PRIOR APPLICATION DATA:  
 ; / APPLICATION NUMBER: PCT/FR93/01024  
 ; / APPLICATION NUMBER: PCT/FR93/01024  
 ; / FILING DATE: 18-OCT-1993  
 ; / PRIOR APPLICATION DATA:  
 ; / APPLICATION NUMBER: FR 92/12488  
 ; / APPLICATION NUMBER: FR 92/12488  
 ; / FILING DATE: 19-OCT-1992  
 ; / ATTORNEY/AGENT INFORMATION:  
 ; / NAME: OBLON, NORMAN F.  
 ; / REGISTRATION NUMBER: 24,618  
 ; / REFERENCE/DOCKET NUMBER: 660-085-0 PCT  
 ; / TELECOMMUNICATION INFORMATION:  
 ; / TELEPHONE: 703-413-3000  
 ; / TELEFAX: 703-413-2220  
 ; / INFORMATION FOR SEQ ID NO: 3:  
 ; / SEQUENCE CHARACTERISTICS:  
 ; / LENGTH: 27 amino acids  
 ; / TYPE: amino acid  
 ; / STRANDEDNESS: single  
 ; / TOPOLOGY: linear  
 ; / MOLECULE TYPE: peptide  
 ; / US-08-416-711-3

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OM protein - protein search, using SW mode.

Run on: March 8, 2005, 17:44:53 ; Search time 60.9174 Seconds

(without alignments) 145.840 Million cell updates/sec

Title: US-10-774-602-12

Perfect score: 150

Sequence: 1 AKEASSYDYLGEEFGGVPEHKKEN 27

Scoring table: BLOSUM62

Gapox 10.0 , Gapext 0.5

Searched: 1391452 seqs, 32904822 residues

Total number of hits satisfying chosen parameters: 1391452

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA: \*

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3: /cgm2\_6/ptodata/2/pubpa/us06\_NEW\_PUB.pep:\*

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RESULT 1

US-10-294-770-3

; Sequence 3, Application US-10294770-3

; Publication No. US20030161840A1

; GENERAL INFORMATION:

; APPLICANT: DRUILHE, PIERRE

; TITLE OF INVENTION: PLASMODIUM FALCIPIRUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES

; FILE REFERENCE: 230759USCIP

; CURRENT APPLICATION NUMBER: US-10-294-770-3

; CURRENT FILING DATE: 2002-11-15

; PRIOR APPLICATION NUMBER: US-09/356,947

; PRIOR FILING DATE: 1999-07-19

; PRIOR APPLICATION NUMBER: US-08/416,711

; PRIOR FILING DATE: 1995-08-09

; PRIOR APPLICATION NUMBER: PCT/FR93/01024

; PRIOR FILING DATE: 1993-10-18

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 3

; LENGTH: 27

; TYPE: PRT

; ORGANISM: Plasmodium falciparum

; US-10-294-770-3

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Result No. Query Score Match Length DB ID Description

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2 150 100.0 27 14 US-10-294-770-12 Sequence 12, Appli

3 150 100.0 27 15 US-10-238-741-3 Sequence 3, Appli

4 150 100.0 27 16 US-10-774-602-3 Sequence 3, Appli

5 150 100.0 27 16 US-10-774-602-12 Sequence 12, Appli

6 150 100.0 64 14 US-10-294-770-1 Sequence 1, Appli

7 150 100.0 64 15 US-10-238-741-1 Sequence 1, Appli

8 150 100.0 64 16 US-10-774-602-1 Sequence 1, Appli

9 58 38.7 596 15 US-10-282-122A-51159 Sequence 51159, A

10 58 38.7 599 15 US-10-282-122A-49798 Sequence 49798, A

11 58 38.7 600 15 US-10-282-122A-48020 Sequence 48020, A

12 58 38.7 600 15 US-10-282-122A-50005 Sequence 50005, A

13 57 38.0 382 15 US-10-369-493-691 Sequence 691, App

14 57 38.0 382 15 US-10-282-122A-31296 Sequence 43296, A

15 57 38.0 382 15 US-10-335-977-4988 Sequence 4888, Ap

16 55 36.7 479 9 US-09-381-752A-14 Sequence 14, Appli

17 55 36.7 479 15 US-10-335-977-4890 Sequence 4890, Ap

18 55 36.7 486 16 US-10-335-977-4891 Sequence 4891, Ap

19 55 36.7 432 16 US-10-437-663-123350 Sequence 123350, A

20 54 36.0 86 16 US-10-767-701-51357 Sequence 51357, A

21 52.5 35.0 111 14 US-10-091-100-35 Sequence 35, Appli

22 52.5 35.0 111 14 US-10-091-100-51 Sequence 51, Appli

23 52.5 35.0 594 15 US-10-282-122A-5399 Sequence 65399, A

24 52.5 35.0 602 15 US-10-282-122A-66049 Sequence 66049, A

25 52.5 34.7 378 15 US-10-369-493-360 Sequence 360, App

26 52 34.7 858 15 US-10-369-493-5536 Sequence 5536, Ap

27 52 34.7 858 15 US-10-369-493-5537 Sequence 5537, Ap

28 52 34.7 269 9 US-09-088-721-36 Sequence 36, Appli

29 51.5 34.3 282 9 US-09-088-721-38 Sequence 38, Appli

30 51.5 34.3 287 9 US-09-088-721-40 Sequence 40, Appli

31 51.5 34.3 291 9 US-09-088-721-44 Sequence 44, Appli

32 51.5 34.3 296 9 US-09-088-721-42 Sequence 42, Appli

33 51.5 34.0 66 14 US-10-156-761-9233 Sequence 9233, Ap

34 51 34.0 263 14 US-10-156-761-9233 Sequence 9233, Ap

35 51 34.0 404 16 US-10-437-963-103597 Sequence 103597, Ap

36 51 34.0 605 16 US-10-437-963-139769 Sequence 139769, Ap

37 51 34.0 588 9 US-09-815-242-12553 Sequence 12553, A

38 50.5 33.7 588 9 US-09-815-242-12816 Sequence 12816, A

39 50.5 33.7 588 9 US-09-815-242-12816 Sequence 12816, A

40 50.5 33.7 588 9 US-09-815-242-12816 Sequence 12816, A

41 50.5 33.7 590 9 US-09-815-242-5449 Sequence 5449, Ap

42 50 33.3 59 15 US-10-424-599-254448 Sequence 254448, Ap

43 50 33.3 174 15 US-10-335-777-134 Sequence 7134, Ap

44 50 33.3 238 10 US-09-880-748-2067 Sequence 2067, Ap

45 50 33.3 238 15 US-10-293-418-2067 Sequence 2067, Ap

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ALIGNMENTS

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Result No.	Query	Score	Match	Length	DB ID	Description
1	150 100.0	27	14	US-10-294-770-3	Sequence 3, Appli	
2	150 100.0	27	14	US-10-294-770-12	Sequence 12, Appli	
3	150 100.0	27	15	US-10-238-741-3	Sequence 3, Appli	
4	150 100.0	27	16	US-10-774-602-3	Sequence 3, Appli	
5	150 100.0	27	16	US-10-774-602-12	Sequence 12, Appli	
6	150 100.0	64	14	US-10-294-770-1	Sequence 1, Appli	
7	150 100.0	64	15	US-10-238-741-1	Sequence 1, Appli	
8	150 100.0	64	16	US-10-774-602-1	Sequence 1, Appli	
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RESULT 2

; Sequence 12, Application US-10294770-3

GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.	Sequence 5, Appli Sequence 18611 A Sequence 18611 , Appli Sequence 3, Appli Sequence 32316, A				
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run on: March 8, 2005, 17:36:47 ; Search time 22.4463 Seconds (without alignments) 93.119 Million cell updates/sec	Sequence 214, App Sequence 197, App Sequence 34, Appli Sequence 41, Appli Sequence 42, Appli Sequence 43, Appli Sequence 44, Appli Sequence 45, Appli				
title: US-10-774-602-13	Sequence 5578, Ap				
perfect score: 147	Sequence 5578, Ap				
equence:	1 PEHKKEENMLSHLYVSSKDKENISKEND 28				
scoring table:	BLOSUM62				
Gapop 10.0 , Gapext 0.5					
searched:	513545 seqs, 74649064 residues				
total number of hits satisfying chosen parameters:	513545				
minimum DB seq length: 0					
maximum DB seq length: 2000000000					
post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries	RESULT 1 US-08-416-711-4 ; Sequence 4, Application US/08416711 ; Patent No. 6017538 ; GENERAL INFORMATION: ; APPLICANT: DRUILHE, PIERRE ; APPLICANT: BOUHAROUN TAYOUN, HASNAQ ; APPLICANT: OUDRAY, CLAUDE ; TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING ; PROTECTIVE ANTIBODIES ; NUMBER OF SEQUENCES: 10 ; CORRESPONDENCE ADDRESS: ; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, ; ADDRESS: P.C. ; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY ; CITY: ARLINGTON ; STATE: VA ; COUNTRY: USA ; ZIP: 22202 ; COMPUTER READABLE FORM: ; MEDIUM TYPE: Floppy disk ; COMPUTER: IBM PC compatible ; OPERATING SYSTEM: PC-DOS/MS-DOS ; SOFTWARE: Patent In Release #1.0, Version #1.30 ; CURRENT APPLICATION DATA: ; APPLICATION NUMBER: US/08/416,711 ; FILING DATE: 08-AUG-1995 ; CLASSIFICATION: 424 ; PRIOR APPLICATION DATA: ; APPLICATION NUMBER: PCT/FR93/01024 ; FILING DATE: 18-OCT-1993 ; PRIOR APPLICATION DATA: ; APPLICATION NUMBER: FR 92/12488 ; FILING DATE: 19-OCT-1992 ; ATTORNEY/AGENT INFORMATION: ; NAME: OBLON, NORMAN F. ; REGISTRATION NUMBER: 24,618 ; TELECOMMUNICATION INFORMATION: ; TELEPHONE: 703-413-3100 ; TELEFAX: 703-413-2220 ; INFORMATION FOR SEQ ID NO: 4: ; SEQUENCE CHARACTERISTICS: ; LENGTH: 28 amino acids ; TYPE: amino acid ; STRANDEDNESS: single ; TOPOLOGY: linear ; MOLECULE TYPE: Peptide ; US-08-416-711-4				
atatabasc :	Issued Patent# AA: 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.* 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.* 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.* 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.* 5: /cgn2_6/ptodata/1/iaa/pcetus_COMB.pep.* 6: /cgn2_6/ptodata/1/iaa/backfile1.pep.*				
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.					
SUMMARIES					
result No.	Score	Query Match	Length	DB ID	Description
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2	143	97.3	28	4 US-09-356-497-4	Sequence 1, Appli
3	143	97.3	64	3 US-08-416-711-4	Sequence 1, Appli
4	143	97.3	64	4 US-09-356-497-1	Sequence 1, Appli
5	58	39.5	121	4 US-09-270-767-55885	Sequence 55885, A
6	58	39.5	121	4 US-09-270-767-11102	Sequence 51102, A
7	48	33.0	189	4 US-09-710-279-2692	Sequence 2692, AP
8	48.5	33.0	652	1 US-08-261-663A_6	Sequence 6, Appli
9	48.5	33.0	652	3 US-09-357-206A-5	Sequence 5, Appli
10	48.5	33.0	652	4 US-09-813-742A-5	Sequence 5, Appli
11	48.5	33.0	652	5 PCT-US95-07754A-6	Sequence 6, Appli
12	48.5	33.0	746	3 US-09-134-001C-3214	Sequence 3214, AP
13	48	33.0	87	4 US-09-107-433-4959	Sequence 4959, AP
14	47.5	32.7	68	4 US-09-621-976-7228	Sequence 7228, AP
15	47.5	32.3	68	4 US-09-621-976-7229	Sequence 7229, AP
16	47.5	32.3	68	4 US-09-621-976-7234	Sequence 7234, AP
17	47.5	32.3	72	4 US-09-248-796A-17147	Sequence 17147, A
18	47.5	32.3	128	4 US-09-513-999C-7955	Sequence 7955, AP
19	47.5	32.3	128	4 US-09-513-999C-7955	Sequence 7955, AP
20	47.5	32.3	128	4 US-09-710-279-398	Sequence 398, APP
21	47.5	32.3	644	4 US-09-710-279-1436	Sequence 1436, AP
22	47.5	32.3	889	1 US-08-118-101A-4	Sequence 4, Appli
23	47.5	32.3	1073	3 US-09-541-782-6	Sequence 6, Appli
24	47.5	32.3	1073	4 US-09-723-820-6	Sequence 6, Appli
25	47.5	32.3	1073	4 US-10-270-085-6	Sequence 6, Appli
26	47.5	32.3	1177	3 US-09-134-001C-51156	Sequence 51156, AP
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**OM protein - protein search, using sw model**

Run on: March 8, 2005, 17:44:53 ; Search time 63.1736 Seconds  
 (without alignments) 145.840 Million cell updates/sec

Title: US-10-774-602-13

Perfect score: 147

Sequence: 1 PEHKKEENMLSHLYSSKDKKENISKEND 28

Scoring table: BLOSUM22

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Total number of hits satisfying chosen parameters: 1391452

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

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RESULT 1  
 US-10-774-770-13

; Sequence 13, Application US-10294770  
 ; Publication No. US20030161840A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DRUILHE, PIERRE  
 ; TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES  
 ; FILE REFERENCE: 2307059US0CTP  
 ; CURRENT APPLICATION NUMBER: US-10-294770  
 ; CURRENT FILING DATE: 2002-11-15  
 ; PRIOR APPLICATION NUMBER: US 09/356,947  
 ; PRIOR FILING DATE: 1999-07-19  
 ; PRIOR APPLICATION NUMBER: US 08/416,711  
 ; PRIOR FILING DATE: 1995-08-08  
 ; PRIOR APPLICATION NUMBER: PCT/FR93/01024  
 ; PRIOR FILING DATE: 1993-10-18  
 ; NUMBER OF SEQ ID NOS: 14  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO: 13  
 ; LENGTH: 28  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic Peptide

RESULT 2  
 US-09-731-872-317

; Sequence 317, Application US-09-731-872-317  
 ; Publication No. US20030161840A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DRUILHE, PIERRE  
 ; TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES  
 ; FILE REFERENCE: 2307059US0CTP  
 ; CURRENT APPLICATION NUMBER: US-10-294770  
 ; CURRENT FILING DATE: 2002-11-15  
 ; PRIOR APPLICATION NUMBER: US 09/356,947  
 ; PRIOR FILING DATE: 1999-07-19  
 ; PRIOR APPLICATION NUMBER: US 08/416,711  
 ; PRIOR FILING DATE: 1995-08-08  
 ; PRIOR APPLICATION NUMBER: PCT/FR93/01024  
 ; PRIOR FILING DATE: 1993-10-18  
 ; NUMBER OF SEQ ID NOS: 14  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO: 13  
 ; LENGTH: 28  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic Peptide

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Query	Match Length	DB ID	Description
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2	147	100.0	28	16 US-10-774-602-13
3	143	97.3	28	14 US-10-294-770-4
4	143	97.3	28	16 US-10-294-770-4
5	143	97.3	28	16 US-10-774-602-4
6	143	97.3	64	14 US-10-294-770-1
7	143	97.3	64	15 US-10-294-770-1
8	143	97.3	64	16 US-10-774-602-1
9	101	68.7	41	14 US-10-294-770-14
10	101	68.7	41	16 US-10-774-602-14
11	54	36.7	199	16 US-10-437-963-161536
12	53	36.1	92	16 US-10-437-963-109657
13	53	36.1	426	9 US-09-731-872-310

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**OM protein - protein search, using sw model**

Run on: March 8, 2005, 17:36:47 ; Search time 32.8678 Seconds  
(without alignments)

93.119 Million cell updates/sec

Title: US-10-774-602-14  
Perfect score: 204  
Sequence: 1 MSLHYSSDKENISKEND.....VLDEKEBEAETEEEEELEK 41

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	97	47.5	28	4 US-09-356-197-4	Sequence 4, Appli
3	97	47.5	64	3 US-08-116-711-1	Sequence 1, Appli
4	97	47.5	64	4 US-09-356-197-1	Sequence 1, Appli
5	82	40.2	3135	1 US-08-123-170B-2	Sequence 2, Appli
6	82	40.2	3135	3 US-08-954-141-2	Sequence 2, Appli
7	79	38.7	714	2 US-08-990-114-3	Sequence 3, Appli
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9	78	38.2	2079	4 US-09-194-016-8301	Sequence 8301, Ap
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11	76.5	37.5	1125	4 US-09-149-016-10194	Sequence 10194, A
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13	76	37.3	905	3 US-09-357-014-9	Sequence 9, Appli
14	76	37.3	1135	2 US-08-574-959A-7	Sequence 7, Appli
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16	76	37.3	2375	4 US-09-538-092-1131	Sequence 1131, Ap
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18	75.5	37.0	1269	4 US-09-249-016-7350	Sequence 7350, Ap
19	75	36.8	87	4 US-09-248-096A-22150	Sequence 22150, A
20	75	36.8	214	4 US-09-214-081A-5	Sequence 5, Appli
21	75	36.8	739	3 US-09-122-083-2	Sequence 2, Appli
22	74.5	36.5	594	4 US-09-248-096A-15031	Sequence 15031, A
23	74	36.3	1016	4 US-09-949-016-11018	Sequence 11018, A
24	73.5	36.0	202	4 US-09-190-976B-19	Sequence 19, Appli
25	73	35.8	111	4 US-09-886-319A-9	Sequence 9, Appli
26	73	35.8	111	4 US-09-886-319A-10	Sequence 10, Appli
27	73	35.8	168	4 US-10-000-489-88	Sequence 88, Appli

#### ALIGNMENTS

**RESULT 1**  
US-08-416-711-4  
; Sequence 4, Application US/08416711  
; Patent No. 6017338

GENERAL INFORMATION:

APPLICANT: DRUILHE, PIERRE  
APPLICANT: BOUHAROUN-TAYOUN, HASNAQ  
APPLICANT: OEUVRAY, CLAUDE  
TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
ADDRESS: P.C.  
STREET: 175 S. JEFFERSON DAVIS HIGHWAY  
CITY: ARLINGTON  
STATE: VA  
COUNTRY: USA  
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/416-711  
FILING DATE: 08-AUG-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/FR93/01024  
FILING DATE: 18-OCT-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: FR 92/12488  
FILING DATE: 19-OCT-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: OBLON, NORMAN F.  
REGISTRATION NUMBER: 24-618  
REFERENCE/DOCKET NUMBER: 660-085-0 PCT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-413-3000  
TELEFAX: 703-413-2220  
INFORMATION FOR SEQ ID NO.: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-416-711-4

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## OM protein - protein search, using sw model

Run on: March 8, 2005, 17:44:53 ; Search time 92.5041 Seconds

(without alignments)  
145.840 Million cell updates/secTitle: US-10-774-602-14  
Perfect score: 204

Sequence: 1 MLSHLYVSSKDKENISKEND.....VLDEKEEAERTEEEBEEK 41

Scoring table: BLOSUM62

Gappen 10.0 , Gapext 0.5

Searched: 1391452 seqs, 32904822 residues

Total number of hits satisfying chosen parameters: 1391452

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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3	101	49.5	28 14 US-10-294-602-14	Sequence 13, Appl
4	101	49.5	28 16 US-10-774-602-13	Sequence 13, Appl
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6	97	47.5	28 15 US-10-238-741-4	Sequence 4, Appl
7	97	47.5	28 16 US-10-774-602-4	Sequence 4, Appl
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13	83	40.7	13 US-10-101-487-114	Sequence 114, App
14	83	40.7	161 16 US-10-437-963-108765	Sequence 108765, App
15	80	39.2	114 9 US-03-864-761-1618	Sequence 45, Appl
16	79	38.7	181 13 US-10-101-487-45	Sequence 45, Appl
17	79	38.7	714 9 US-03-978-242-3	Sequence 65999, A
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20	78	38.2	117 9 US-09-864-761-45592	Sequence 45592, A
21	78	38.2	225 14 US-10-023-386-2045	Sequence 2505, A
22	78	38.2	406 16 US-10-437-963-115969	Sequence 115969, A
23	78	38.2	37.7 186 13 US-10-101-487-44	Sequence 44, App
24	77	37.7	37.7 198 13 US-10-101-487-42	Sequence 42, App
25	77	37.7	200 13 US-10-101-487-53	Sequence 53, App
26	77	37.7	179 13 US-10-101-487-107	Sequence 107, App
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29	76.5	37.5	1125 9 US-09-974-298-114	Sequence 234, App
30	76.5	37.5	1125 13 US-10-087-192-234	Sequence 10, App
31	76.5	37.5	1154 14 US-10-232-561-10	Sequence 277, App
32	76	37.3	179 13 US-10-112-944-435	Sequence 2, App
33	76	37.3	983 15 US-10-112-944-435	Sequence 435, App
34	76	37.3	1021 16 US-10-408-765A-313	Sequence 313, App
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36	76	37.3	1641 16 US-10-408-765A-815	Sequence 815, App
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42	75	36.8	214 9 US-09-214-881A-5	Sequence 5, App
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44	75	36.8	1251 15 US-10-112-944-881	Sequence 881, App
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## RESULT 1

US-10-294-770-14

; Sequence 14, Application US/10294770

; Publication No. US20030161840A1

; GENERAL INFORMATION:

; APPLICANT: DRUILHE, PIERRE

; TITLE OF INVENTION: PLASMODIUM FALCIIPARUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES

; FILE REFERENCE: 230759USCIP

; CURRENT APPLICATION NUMBER: US/10/294,770

; CURRENT FILING DATE: 2002-11-15

; PRIOR APPLICATION NUMBER: US/09/356,947

; PRIOR FILING DATE: 1999-07-19

; PRIOR APPLICATION NUMBER: 1995-08-08

; PRIOR FILING DATE: 1993-10-18

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 14

; LENGTH: 41

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Peptide

US-10-294-770-14

; Query Match

100.0% ; Score 204 ; DB 14 ; Length 41;

Best Local Similarity 100.0% ; Pred. No. 8-6-13 ;

Matches 41 ; Conservative 0 ; Mismatches 0 ; Indels 0 ; Gaps 0 ;

Qy 1 MLSHLVSSKDKENISKENNDVLDKEBAETEEBLEEK 41

Db 1 MLSHLVSSKDKENISKENNDVLDKEBAETEEBLEEK 41

## RESULT 2